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Pyristors. See *Temperature measuring instruments.*
Pyrometers; Pyrometry. See *Temperature measuring instruments.*
PLZT. See *Lead, PLZT.*

Quartz. See also *Glass; Refractories; Silicon, dioxide.*
Quicklime. See *Lime.*

Radioactive materials. See *Isotopes; Wastes.*
Radioactive tracers. See *Isotopes.*
Radioisotopes. See *Isotopes.*
Rare earths (lanthanons). See also specific types.
Raw materials. See *Cements; Materials; Sands; Rocks.*
Reagents. See specific types.
Recrystallization. See *Crystallization.*
Recuperators. See *Furnaces; Kilns; Refractories.*
Reflectance. See *Reflection.*
Reflectivity. See *Reflection.*
Refractivity. See *Refraction.*
Refractories. See also *Insulation, thermal; Kiln furniture; Silicon, carbide; Spacecraft.*
Refractories, brick. See also *acid, basic,* and specific types under *Refractories.*
Refractories, cement. See also *Refractories, blast-furnace.*
Refractories, chrome-magnesite. See also *Refractories, magnesite-chrome.*
Refractories, coatings. See *Coatings.*
Refractories, concrete. See *Concretes.*
Refractories, electrocast. See *Refractories, fused cast.*
Refractories, magnesite. See also *Refractories, chrome-magnesite.*
Regenerators. See *Refractories.*
Resistance, electrical. See also *Conductivity, electrical; Electrical properties.*
Retardants. See also *Additives.*
Rock wool. See *Mineral wool.*
Rockets. See *Spacecraft.*
Rocks. See also *Phosphates; Silicates.*
Roughness. See *Surface.*
Ruby. See *Garnets; Lasers.*
Rutile. See also *Titanium, dioxide.*

Saggers. See *Kiln furniture.*
Sanidine. See *Feldspar.*
Sapphire. See also *Aluminum oxide.*
Schools. See *Education.*
Screen process printing. See *Decoration.*
Sculpture. See *Art and artware.*
Seals and sealing. See also *Bonding; Soldering.*
Separation. See also *Beneficiation; Classification; Flotation.*
Separation, electrostatic. See *Electrostatic processes.*
Setting. See *Binders.*
Settling. See *Sedimentation.*
Sewer pipes. See *Pipe.*
Sieves. See *Screens and sieves.*
Silica. See *Silicon dioxide.*
Silicon, carbide. See also *Refractories.*
Silicon dioxide. See also *Coesite; Colloids; Cristobalite; Glass; Quartz; Quartzite; Refractories; Sands.*
Sillimanite. See also *Refractories.*
Silvering. See *Glass.*
Single crystals. See *Crystals;* specific types.
Slaking. See *Lime, hydration.*
Slips. See also *Suspensions.*
Smelting. See *Metallurgy.*
Soapstone. See *Talc.*
Soda or Soda ash. See *Sodium, carbonate.*
Sodium. See also *Alkalis.*
Solar batteries or Solar cells. See *Cells, photovoltaic.*
Solar furnaces. See *Furnaces.*
Soldering. See also *Seals and sealing.*
Solid solutions. See *Solutions, solid.*
Sols. See *Colloids.*
Solutions, solid. See also *Phase equilibria.*
Sorel cement. See *Cements, magnesium oxychloride.*
Sorption. See also *Absorption; Adsorption.*
Spalling. See *Refractories.*
Specific gravity. See *Density.*
Specific heat. See *Heat, specific.*
Specific surface. See *Surface.*
Spectra. See also *Optical properties.*
Spectrophotometry. See also *Photometry.*
Spinel. See also *Refractories;* specific types.
Spraying. See also *Atomization.*

Spraying, electrostatic. See *Electrostatic processes.*
Stains. See also *Color; Pigments.*
Stannic, Stannous. See *Tin.*
Steatite. See also *Talc.*
Steels. See also *Enameling metals; Iron.*
Stones. See also *Rocks.*
Structural clay products. See also *Brick; Tile.*
Structural materials. See *Aggregates; Brick, Building materials; Cements; Concretes; Enameled ware; Glass; Insulation, thermal; Masonry; Structural clay products.*
Structure, micro-. See also *Particles, size; Porosity.*
Supersonics. See *Sonics.*
Suspensions. See also *Slips.*
Systems. See also *Phase equilibria.*

Tableware. See *Dinnerware.*
Talc. See also *Steatite.*
Tanks. See *Furnaces, glass.*
Television screens. See *Screens (fluorescent).*
Television tubes. See *Tubes.*
Tempering, of glass. See *Glass.*
Terminology. See *Nomenclature.*
Testing. See also *Analysis;* specific types.
Thermal conductivity. See *Conductivity, thermal.*
Thermal decomposition. See *Decomposition.*
Thermal expansion. See *Expansion.*
Thermal shock resistance. See *Shock resistance, thermal.*
Thermistors. See *Resistors, electrical.*
Thermochemistry. See *Thermodynamics.*
Thermocouples. See *Temperature measuring instruments.*
Thermoelectrical properties. See *Electrical properties.*
Thermogravimetry. See *Thermal analysis, gravimetric.*
Thermoluminescence. See *Luminescence.*
Thermomechanical properties. See *Mechanical properties.*
Thermometers. See *Temperature measuring instruments.*
Thermophysical properties. See *Physical properties.*
Thin sections. See *Microscopy.*
Thoria. See *Thorium, dioxide.*
Thyristors. See *Transistors.*
Tile. See also *Pipe.*
Titanates. See also *Dielectrics;* specific types.
Titania. See *Titanium, dioxide.*
Titanium, carbide. See also *Cermets.*
Titanium, dioxide, pigments. See *Pigments.*
Titration. See also *Analysis.*
Tools. See also *Drills.*
Tools, cutting. See also *Abrasives.*
Tools, grinding. See *Grinding apparatus.*
Trace elements. See *Elements.*
Tracers. See *Radioactive tracers.*
Transfers. See *Decoration.*
Transport processes. See also *Diffusion; Ions; Kinetics; Resistivity, electrical; Viscosity.*
Tricalcium. See *Calcium, tri-.*
Trituration. See *Crushing; Grinding.*
Tuyeres. See *Refractories.*
Twinning, of crystals. See *Crystals.*

Ultrasonics. See also *Sonics.*
Urania. See *Uranium, dioxide.*

Vacuum tubes. See *Tubes.*
Vapors. See also *Gases; Water.*
Varactors. See *Diodes.*
Varistors. See *Resistors, electrical.*
Viscosity. See also *Density; Friction, internal; Solutions.*

Water. See also *Humidity; Hydration; Moisture; Steam; Vapors.*
Water glass. See *Sodium, silicate.*
Weighing and weights. See also *Thermogravimetry.*
Welding, electrodes. See *Electrodes.*
Whiskers. See *Crystals;* specific types.
Whiteware. See also *Art and artware; Bodies, ceramic; Dielectrics; Dinnerware; Heating elements; Insulators, electrical; Porcelain; Pottery; Tile.*
Windows. See *Glass.*
Windshields. See *Glass.*
Wire, welding. See *Welding.*

Young's modulus. See *Elasticity.*
Ytterbia. See *Ytterbium, oxide.*
Yttria. See *Yttrium, oxide.*

Zircon. See also *Refractories; Zirconium, silicate.*
Zirconia. See *Zirconium, dioxide.*
Zirconium, silicate. See also *Zircon.*

Historical Data on The American Ceramic Society

Year	Meeting Place	President Installed	Vice President
1899	Columbus, Ohio	H. A. Wheeler (gen)	Ernest Mayer
1900	Detroit, Mich.	Karl Langenbeck (gen)	C. F. Binns
1901	Old Point Comfort	C. F. Binns (art)	Ernest Mayer
1902	Cleveland, Ohio	Ernest Mayer (W)	F. W. Walker, Sr.
1903	Boston, Mass.	E. C. Stover (W)	Heinrich Ries
1904	Cincinnati, Ohio	F. W. Walker, Sr. (W)	A. V. Bleininger
1905	Birmingham, Ala.	W. D. Gates (terra cotta)	Ellis Lovejoy
1906	Philadelphia, Pa.	W. D. Richardson (S)	Samuel Geijsbeek
1907	St. Louis, Mo.	S. G. Burt (art)	R. C. Purdy
1908	Columbus, Ohio	A. V. Bleininger (W)	Charles Weelans
1909	Rochester, N. Y.	R. C. Purdy (gen)	A. S. Watts
1910	Pittsburgh, Pa.	Heinrich Ries (gen)	R. R. Hice
1911	Trenton, N. J.	Charles Weelans (W)	L. E. Barringer
1912	Chicago, Ill.	A. S. Watts (gen)	C. W. Parmelee
1913	Washington, D. C.	Ellis Lovejoy (S)	A. F. Hottinger
1914	Wheeling, W. Va.	C. W. Parmelee (gen)	D. T. Farnham
1915	Detroit, Mich.	R. R. Hice (S)	R. T. Stull
1916	Cleveland, Ohio	L. E. Barringer (W)	F. K. Pence
1917	New York, N. Y.	G. H. Brown (gen)	C. E. Jackson
1918	Indianapolis, Ind.	H. F. Staley (C)	A. F. Greaves-Walker
1919	Pittsburgh, Pa.	R. T. Stull (S)	R. H. Minton
1920	Philadelphia, Pa.	R. H. Minton (W)	E. T. Montgomery
1921	Columbus, Ohio	F. K. Pence (W)	F. B. Ortman
1922	St. Louis, Mo.	F. H. Riddle (W)	E. Ward Tillotson
1923	Pittsburgh, Pa.	A. F. Greaves-Walker (R)	R. D. Landrum
1924	Atlantic City, N. J.	R. D. Landrum (C)	R. M. Howe and August Staudt
1925	Columbus, Ohio	E. Ward Tillotson (G)	F. H. Rhead
1926	Atlanta, Ga.	R. L. Clare (terra cotta)	B. Mifflin Hood
1927	Detroit, Mich.	B. Mifflin Hood (S)	M. C. Booze
1928	Atlantic City, N. J.	M. C. Booze (R)	R. R. Danielson
1929	Chicago, Ill.	G. A. Bole (gen)	F. A. Harvey
1930	Toronto, Canada	Edward Orton, Jr. (gen)	P. E. Cox
1931	Cleveland, Ohio	E. V. Eskesen (terra cotta)	Alexander Silverman
1932	Washington, D. C.	E. P. Poste (C)	W. Keith McAfee
1933	Pittsburgh, Pa.	J. C. Hostetter (G)	L. J. Trostel, Sr.
1934	Cincinnati, Ohio	W. Keith McAfee (W)	J. M. McKinley
1935	Buffalo, N. Y.	J. M. McKinley (R)	F. C. Flint
1936	Columbus, Ohio	F. C. Flint (G)	R. B. Sosman
1937	New York, N. Y.	R. B. Sosman (R)	V. V. Kelsey
1938	New Orleans, La.	V. V. Kelsey (M)	A. I. Andrews
1939	Chicago, Ill.	A. I. Andrews (C)	J. L. Carruthers
1940	Toronto, Canada	J. L. Carruthers (terra cotta)	J. T. Littleton
1941	Baltimore, Md.	J. T. Littleton (G)	P. D. Helser
1942	Cincinnati, Ohio	L. J. Trostel, Sr. (R)	M. E. Holmes
1943	Pittsburgh, Pa.	C. E. Bales (R)	E. H. Fritz
1944	Pittsburgh, Pa.	E. H. Fritz (W)	C. Forrest Tefft
1945	Buffalo, N. Y.	C. Forrest Tefft (S)	J. E. Hansen
1946	Buffalo, N. Y.	J. E. Hansen (C)	J. D. Sullivan
1947	Atlantic City, N. J.	J. D. Sullivan (R)	J. W. Whittemore
1948	Chicago, Ill.	J. W. Whittemore (gen)	H. M. Kraner
1949	Cincinnati, Ohio	H. M. Kraner (R)	Howells Frechette, A. L. Bennett, Robert Twells
1950	New York, N. Y.	J. W. Hepplewhite (W)	Aaron K. Lyle, Hewitt Wilson, T. A. Klinefelter
1951	Chicago, Ill.	Howard R. Lillie (G)	Probert W. Dager, Ray W. Pafford, Arthur A. Wells
1952	Pittsburgh, Pa.	W. Edward Cramer (W)	Victor C. Swicker, Harry H. Holscher, H. B. DuBois
1953	New York, N. Y.	R. R. Danielson (C)	J. E. Eagle, Joseph A. Pask, S. M. Swain
1954	Chicago, Ill.	Ray W. Pafford (S)	William O. Brandt, John F. McMahon, Rolland R. Roup
1955	Cincinnati, Ohio	Robert Twells (W)	R. S. Bradley, John H. Isenhour, Kenneth C. Lyon
1956	New York, N. Y.	Karl Schwartzwalder (W)	Oscar G. Burch, Louis Navias, C. W. Planje
1957	Dallas, Texas	John F. McMahon (gen)	Wayne A. Deringer, Clarence H. Hahner, J. S. Nordyke
1958	Pittsburgh, Pa.	R. S. Bradley (R)	W. W. Coates, Harry E. Davis, Herbert Insley
1959	Chicago, Ill.	Oscar G. Burch (G)	J. J. Canfield, John H. Koenig, James I. Mueller
1960	Philadelphia, Pa.	George H. Spencer-Strong (C)	Eugene C. Clemens, Frederick H. Norton, Andrew Pereny
1961	Toronto, Canada	John S. Nordyke (M)	V. J. Duplin, Leonard G. Ghering, Elroy E. Howe
1962	New York, N. Y.	John H. Koenig (E)	W. W. Gaskins, Frank Jansma, E. F. Osborn
1963	Pittsburgh, Pa.	Paul V. Johnson (S)	H. P. Bonebrake, Clair R. Oberst, James S. Owens
1964	Chicago, Ill.	Elburt F. Osborn (B)	R. R. Rhodes, G. J. Middleton, W. J. Smothers
1965	Philadelphia, Pa.	Howard P. Bonebrake (M)	R. E. Birch, L. S. O'Bannon, A. E. R. Westman
1966	Washington, D. C.	George J. Bair (G)	Arthur J. Blume, Edward C. Henry, Harry W. Thiemecke
1967	New York, N. Y.	James S. Owens (W)	Howard F. McMurdie, Alfred W. Allen, J. Earl Frazier
1968	Chicago, Ill.	Loran S. O'Bannon (C)	Clarence L. Babcock, Lane Mitchell, Theodore J. M. Planje
1969	Washington, D. C.	Arthur J. Blume (S)	William W. Coffeen, Scroop W. Enloe, Jr., J. O. Everhart
1970	Philadelphia, Pa.	J. Earl Frazier (G)	Eugene E. Bryant, Richard M. Fulrath, Ralph L. Gibson
1971	Chicago, Ill.	William J. Smothers (R)	James R. Johnson, Robert S. Sinclair, Stephen D. Stoddard
1972	Washington, D. C.	T. J. Planje (R)	Joseph E. Burke, Robert S. Du Fresne, William R. Prindle
1973	Cincinnati, Ohio	James R. Johnson (B)	Lyle A. Holmes, Walter W. Perkins, Merton L. Van Dreser
1974	Chicago, Ill.	Joseph E. Burke (B)	William J. Knapp, Malcolm G. McLaren, Haydn H. Murray, Basil G. Staples, Franklin M. Townsend
1975	Washington, D.C.	Ralston Russell, Jr.	Sherwood E. Patek, John A. Stewart, O. J. Whittemore, Jr.